

神経系

第1章 鎮静

● 参照文献

- Barr J, et al. Clinical practice guidelines for the management of pain, agitation, and delirium in adult patients in the intensive care unit. *Crit Care Med* 2013; 41: 263-306. PMID : 23269131
- Kress JP, et al. Daily interruption of sedative infusions in critically ill patients undergoing mechanical ventilation. *N Engl J Med* 2000; 342: 1471-7. PMID : 10816184
- Strøm T, et al. A protocol of no sedation for critically ill patients receiving mechanical ventilation: a randomised trial. *Lancet* 2010; 375: 475-80. PMID : 20116842
- Miyasaka M, et al. Bivalirudin versus heparin use for patients undergoing PPCI. *Lancet* 2015; 385: 2044-5. PMID : 26009225
- Reade MC, et al. Sedation and delirium in the intensive care unit. *N Engl J Med* 2014; 370: 444-54. PMID : 24476433
- Sessler CN et al. Patient-focused sedation and analgesia in the ICU. *Chest* 2008; 133: 552-65. PMID : 18252923
- Treggiari MM, et al. Randomized trial of light versus deep sedation on mental health after critical illness. *Crit Care Med* 2009; 37: 2527-34. PMID : 19602975
- Brook AD, et al. Effect of a nursing-implemented sedation protocol on the duration of mechanical ventilation. *Crit Care Med* 1999; 27: 2609-15. PMID : 10628598
- Mehta S, et al. Daily sedation interruption in mechanically ventilated critically ill patients cared for with a sedation protocol: a randomized controlled trial. *JAMA* 2012; 308: 1985-92. PMID : 23180503
- Riker RR, et al. Prospective evaluation of the Sedation-Agitation Scale for adult critically ill patients. *Crit Care Med* 1999; 27: 1325-9. PMID : 10446827
- Sessler CN, et al. The Richmond Agitation-Sedation Scale: validity and reliability in adult intensive care unit patients. *Am J Respir Crit Care Med* 2002; 166: 1338-44. PMID : 12421743
- Fudickar A, et al. Propofol infusion syndrome: update of clinical manifestation and pathophysiology. *Minerva Anestesiol* 2009; 75: 339-44. PMID : 19412155
- Roberts RJ, et al. Incidence of propofol-related infusion syndrome in critically ill adults: a prospective, multicenter study. *Crit Care* 2009; 13: R169. PMID : 19874582
- Vernooy K, et al. Electrocardiographic changes predicting sudden death in propofol-related infusion syndrome. *Heart Rhythm* 2006; 3: 131-7. PMID : 16443524
- Schroeppel TJ, et al. Propofol infusion syndrome: a lethal condition in critically injured patients eliminated by a simple screening protocol. *Injury* 2014; 45: 245-9. PMID : 23742861
- Weiner JB, et al. Recovery following propofol-associated brugada electrocardiogram. *Pacing Clin Electrophysiol* 2010; 33: e39-42. PMID : 19821933

17. Dasta JF, et al. Comparing dexmedetomidine prescribing patterns and safety in the naturalistic setting versus published data. *Ann Pharmacother* 2004; 38: 1130-5. PMID : 15173557
18. Kress JP, et al. The long-term psychological effects of daily sedative interruption on critically ill patients. *Am J Respir Crit Care Med* 2003; 168: 1457-61. PMID : 14525802
19. Jones C, et al. Precipitants of post-traumatic stress disorder following intensive care : a hypothesis generating study of diversity in care. *Intensive Care Med* 2007; 33: 978-85. PMID : 17384929
20. Maldonado JR, et al. Dexmedetomidine and the reduction of postoperative delirium after cardiac surgery. *Psychosomatics* 2009; 50: 206-17. PMID : 19567759
21. Jones C, et al. Precipitants of post-traumatic stress disorder following intensive care : a hypothesis generating study of diversity in care. *Intensive Care Med* 2007; 33: 978-85. PMID : 17384929
22. Carson SS, et al. A randomized trial of intermittent lorazepam versus propofol with daily interruption in mechanically ventilated patients. *Crit Care Med* 2006; 34: 1326-32. PMID : 16540958
23. Riker RR, et al. Dexmedetomidine vs midazolam for sedation of critically ill patients : a randomized trial. *JAMA* 2009; 301: 489-99. PMID : 19188334
24. Samuelson KA, et al. Light vs. heavy sedation during mechanical ventilation after oesophagectomy — a pilot experimental study focusing on memory. *Acta Anaesthesiol Scand* 2008; 52: 1116-23. PMID : 18840113
25. Pandharipande P, et al. Prevalence and risk factors for development of delirium in surgical and trauma intensive care unit patients. *J Trauma* 2008; 65: 34-41. PMID : 18580517
26. Pandharipande P, et al. Sedative and analgesic medications : risk factors for delirium and sleep disturbances in the critically ill. *Crit Care Clin* 2006; 22: 313-27, vii. PMID : 16678002
27. Arroliga AC, et al. Use of sedatives, opioids, and neuromuscular blocking agents in patients with acute lung injury and acute respiratory distress syndrome. *Crit Care Med* 2008; 36: 1083-8. PMID : 18401254
28. Ho KM, et al. The use of propofol for medium and long-term sedation in critically ill adult patients : a meta-analysis. *Intensive Care Med* 2008; 34: 1969-79. PMID : 18575838
29. Fong JJ, et al. Propofol associated with a shorter duration of mechanical ventilation than scheduled intermittent lorazepam : a database analysis using Project IMPACT. *Ann Pharmacother* 2007; 41: 1986-91. PMID : 17956957
30. Esmaoglu A, et al. Comparison between dexmedetomidine and midazolam for sedation of eclampsia patients in the intensive care unit. *J Crit Care* 2009; 24: 551-5. PMID : 19327948
31. Ruokonen E, et al. Dexmedetomidine versus propofol/midazolam for long-term sedation during mechanical ventilation. *Intensive Care Med* 2009; 35: 282-90. PMID : 18795253
32. Weinbroum AA, et al. Midazolam versus propofol for long-term sedation in the ICU : a randomized prospective comparison. *Intensive Care Med* 1997; 23: 1258-63. PMID : 9470082
33. Pandharipande PP, et al. Effect of sedation with dexmedetomidine vs lorazepam on acute brain dysfunction in mechanically ventilated patients : the MENDS randomized controlled trial. *JAMA* 2007; 298: 2644-53. PMID : 18073360
34. Anis AH, et al. Economic evaluation of propofol for sedation of patients admitted to intensive care units. *Anesthesiology* 2002; 96: 196-201. PMID : 11753021
35. Hall RI, et al. Propofol vs midazolam for ICU sedation : a Canadian multicenter randomized trial. *Chest* 2001; 119: 1151-9. PMID : 11296183
36. Huey-Ling L, et al. Comparison of the effect of protocol-directed sedation with propofol vs. midazolam by nurses in intensive care : efficacy, haemodynamic stability and patient satisfaction. *J Clin Nurs* 2008; 17: 1510-7. PMID : 18482144
37. Searle NR, et al. Propofol or midazolam for sedation and early extubation following cardiac surgery. *Can J Anaesth* 1997; 44: 629-35. PMID : 9187783

38. Pandharipande PP, et al. Effect of dexmedetomidine versus lorazepam on outcome in patients with sepsis : an a priori-designed analysis of the MENDS randomized controlled trial. Crit Care 2010 ; 14 : R38. PMID : 20233428
39. Cox CE, et al. Economic evaluation of propofol and lorazepam for critically ill patients undergoing mechanical ventilation. Crit Care Med 2008 ; 36 : 706-14. PMID : 18176312
40. Barrientos-Vega R, et al. Prolonged sedation of critically ill patients with midazolam or propofol : impact on weaning and costs. Crit Care Med 1997 ; 25 : 33-40. PMID : 8989173
41. Dasta JF, et al. A cost-minimization analysis of dexmedetomidine compared with midazolam for long-term sedation in the intensive care unit. Crit Care Med 2010 ; 38 : 497-503. PMID : 19789442
42. Jakob SM, et al. Dexmedetomidine vs midazolam or propofol for sedation during prolonged mechanical ventilation : two randomized controlled trials. JAMA 2012 ; 307 : 1151-60. PMID : 22436955
43. Bielka K, et al. Addition of dexmedetomidine to benzodiazepines for patients with alcohol withdrawal syndrome in the intensive care unit : a randomized controlled study. Ann Intensive Care 2015 ; 5 : 33. PMID : 26525052

第2章 鎮痛

● 参照文献

1. Barr J, et al. Clinical practice guidelines for the management of pain, agitation, and delirium in adult patients in the intensive care unit. Crit Care Med 2013 ; 41 : 263-306. PMID : 23269131
2. Chanques G, et al. A prospective study of pain at rest : incidence and characteristics of an unrecognized symptom in surgical and trauma versus medical intensive care unit patients. Anesthesiology 2007 ; 107 : 858-60. PMID : 18073576
3. Puntillo KA, et al. Patients' perceptions and responses to procedural pain : results from Thunder Project II. Am J Crit Care. 2001 ; 10 : 238-51. PMID : 11432212
4. Granja C, et al. Understanding posttraumatic stress disorder-related symptoms after critical care : the early illness amnesia hypothesis. Crit Care Med 2008 ; 36 : 2801-9. PMID : 18766108
5. Akça O, et al. Postoperative pain and subcutaneous oxygen tension. Lancet 1999 ; 354 : 41-2. PMID : 10406365
6. Siffleet J, et al. Patients' self-report of procedural pain in the intensive care unit. J Clin Nurs 2007 ; 16 : 2142-8. PMID : 17931309
7. Payen JF, et al. Pain assessment is associated with decreased duration of mechanical ventilation in the intensive care unit : a post Hoc analysis of the DOLOREA study. Anesthesiology 2009 ; 111 : 1308-16. PMID : 19934877
8. Bruce EA, et al. Chest drain removal pain and its management : a literature review. J Clin Nurs 2006 ; 15 : 145-54. PMID : 16422731
9. Nishimori M, et al. Epidural pain relief versus systemic opioid-based pain relief for abdominal aortic surgery. Cochrane Database Syst Rev 2012 ; (7) : CD005059. PMID : 22786494
10. Aronoff GR, et al. Drug prescribing in renal failure : dosing guidelines for adults. Philadelphia : American College of Physicians, 1999.

第3章 譙妄

● 参照文献

1. 高橋三郎ほか監訳. DSM-5® 精神疾患の診断・統計マニュアル. 東京 : 医学書院, 2014 : 588-94.
2. Morandi A, et al. Understanding international differences in terminology for delirium and other types of acute brain dysfunction in critically ill patients. Intensive Care Med 2008 ; 34 : 1907-15. PMID : 18563387

3. 福井次矢ほか監訳. 錯乱および谵妄. In: ハリソン内科学第4版. 東京: メディカル・サイエンス・インターナショナル, 2013.
4. Cavallazzi R, et al. Delirium in the ICU: an overview. Ann Intensive Care 2012; 2: 49. PMID: 23270646
5. Brummel NE, et al. Preventing delirium in the intensive care unit. Crit Care Clin 2013; 29: 51-65. PMID: 23182527
6. Ely EW, et al. Delirium in mechanically ventilated patients: validity and reliability of the confusion assessment method for the intensive care unit (CAM-ICU). JAMA 2001; 286: 2703-10. PMID: 11730446
7. Peterson JF, et al. Delirium and its motoric subtypes: a study of 614 critically ill patients. J Am Geriatr Soc 2006; 54: 479-84. PMID: 16551316
8. Ely EW, et al. Delirium as a predictor of mortality in mechanically ventilated patients in the intensive care unit. JAMA 2004; 291: 1753-62. PMID: 15082703
9. Pisani MA, et al. Days of delirium are associated with 1-year mortality in an older intensive care unit population. Am J Respir Crit Care Med 2009; 180: 1092-7. PMID: 19745202
10. Ely EW, et al. Evaluation of delirium in critically ill patients: validation of the Confusion Assessment Method for the Intensive Care Unit (CAM-ICU). Crit Care Med 2001; 29: 1370-9. PMID: 11445689
11. Schweickert WD, et al. Early physical and occupational therapy in mechanically ventilated, critically ill patients: a randomised controlled trial. Lancet 2009; 373: 1874-82. PMID: 19446324
12. Zaal IJ, et al. Intensive care unit environment may affect the course of delirium. Intensive Care Med 2013; 39: 481-8. PMID: 23093246
13. Van Rompaey B, et al. The effect of earplugs during the night on the onset of delirium and sleep perception: a randomized controlled trial in intensive care patients. Crit Care 2012; 16: R73. PMID: 22559080
14. Chang LY, et al. Influence of physical restraint on unplanned extubation of adult intensive care patients: a case-control study. Am J Crit Care 2008; 17: 408-15; quiz 416. PMID: 18775996
15. Shehabi Y, et al. Prevalence of delirium with dexmedetomidine compared with morphine based therapy after cardiac surgery: a randomized controlled trial (DEXmedetomidine COmpared to Morphine-DEXCOM Study). Anesthesiology 2009; 111: 1075-84. PMID: 19786862

第4章 ICUでの筋弛緩薬

● 参照文献

1. Slutsky AS, et al. Ventilator-induced lung injury. N Engl J Med 2013; 369: 2126-36. PMID: 24283226
2. Papazian L, et al. Neuromuscular blockers in early acute respiratory distress syndrome. N Engl J Med 2010; 363: 1107-16. PMID: 20843245

第5章 意識障害総論: 分類と生理学

● 参照文献

1. Ely EW, et al. Delirium as a predictor of mortality in mechanically ventilated patients in the intensive care unit. JAMA 2004; 291: 1753-62. PMID: 15082703
2. Marino PL. The ICU Book. 3rd ed. Philadelphia: Lippincott Williams & Wilkins, 2007 (稻田英一監訳. ICU ブック. 第3版. 東京: メディカル・サイエンス・インターナショナル, 2008).
3. Bernat JL. The natural history of chronic disorders of consciousness. Neurology 2010; 75: 206-7. PMID: 20554939
4. 厚生労働省科学研究費補助金厚生労働科学特別研究事業「脳死判定基準のマニュアル化に関する研究」法の脳死判定マニュアル. 平成29年4月改訂.<http://www.mhlw.go.jp/stf/seisakunit_suite/bunya/

0000040046.html>

第6章 意識障害患者の診察と検査

● 参照文献

1. Wijdicks EF, et al. Validation of a new coma scale : The FOUR score. Ann Neurol 2005 ; 58 : 585–93. PMID : 16178024
2. Gabrielli A, et al. Civetta, Taylor and Kirby's critical care, 4th ed. Philadelphia : Lippincott Williams & Wilkins, 2008.
3. Stevens RD et al. Approach to the comatose patient. Crit Care Med 2006 ; 34 : 31–41. PMID : 16374153
4. 平岡栄治ほか. 集中治療に役立つ内科ベッドサイド診断学：意識障害患者の神経学的所見の取り方：ICU でも神経学的所見を取ろうパート 1. Intensivist 2010 ; 2 : 212–9.
5. 平岡栄治ほか. 集中治療に役立つ内科ベッドサイド診断学：意識障害患者の神経学的所見の取り方：ICU でも神経学的所見を取ろうパート 2. Intensivist 2010 ; 2 : 426–31.
6. Sutter R, et al. Myoclonus in the critically ill : Diagnosis, management, and clinical impact. Clin Neurophysiol 2016 ; 127 : 67–80. PMID : 26428447
7. Wong JC, et al. Head computed tomography is not useful for evaluating patients change in mental status following total joint arthroplasty. J Arthroplasty 2014 ; 29 : 1114–8. PMID : 24524774
8. Herman ST, et al. Consensus statement on continuous EEG in critically ill adults and children, part I: indications. J Clin Neurophysiol 2015 ; 32 : 87–95. PMID : 25626778

第7章 筋力低下の鑑別と診断

● 参照文献

1. Kollef MH, et al. The Washington Manual of Critical Care, 3rd ed. Philadelphia : Lippincott Williams & Wilkins, 2017 (田中竜馬監訳. ワシントン集中治療マニュアル. 東京 : メディカル・サイエンス・インターナショナル, 2010).
2. 黒田康夫. 神経内科ケース・スタディー病変部位決定の仕方. 東京 : 新興医学出版社, 2000.
3. Gabrielli A, et al. Civetta, Taylor and Kirby's critical care, 4th ed. Philadelphia : Lippincott Williams & Wilkins, 2008.
4. Lawn ND, et al. Anticipating mechanical ventilation in Guillain-Barré syndrome. Arch Neurol 2001 ; 58 : 893–8. PMID : 11405803
5. Zochodne DW, et al. Critical illness polyneuropathy. A complication of sepsis and multiple organ failure. Brain 1987 ; 110 : 819–41. PMID : 3651796
6. Marino PL. The ICU Book. 3rd ed. Philadelphia : Lippincott Williams & Wilkins, 2007 (稻田英一監訳. ICU ブック. 第3版. 東京 : メディカル・サイエンス・インターナショナル, 2008).
7. Kress JP, et al. ICU-acquired weakness and recovery from critical illness. N Engl J Med 2014 ; 370 : 1626–35. PMID : 24758618
8. Witt NJ, et al. Peripheral nerve function in sepsis and multiple organ failure. Chest 1991 ; 99 : 176–84. PMID : 1845860
9. Bercker S, et al. Critical illness polyneuropathy and myopathy in patients with acute respiratory distress syndrome. Crit Care Med 2005 ; 33 : 711–5. PMID : 15818093

第8章 頭蓋内圧(ICP)モニタリングと管理

● 参照文献

1. Albeck MJ, et al. Intracranial pressure and cerebrospinal fluid outflow conductance in healthy subjects. J Neurosurg 1991 ; 74 : 597–600. PMID : 2002373
2. Brain Trauma Foundation : American Association of Neurological Surgeons : Congress of Neurological

- Surgeons. Guidelines for the management of severe traumatic brain injury. *J Neurotrauma* 2007; 24 Suppl 1 : S1-106. PMID : 17511534
3. Smith WS, et al. Emergency Neurological Life Support (ENLS) : what to do in the first hour of a neurological emergency. *Neurocrit Care* 2012; 17 : S1-3. PMID : 22843191
4. Shigemori M, et al. Guidelines for the Management of Severe Head Injury, 2nd Edition guidelines from the Guidelines Committee on the Management of Severe Head Injury, the Japan Society of Neurotraumatology. *Neurol Med Chir (Tokyo)* 2012; 52 : 1-30. PMID : 22278024
5. Kaye AH. Brain Tumors : An Encyclopedic Approach. 2nd ed. New York : Churchill Livingstone, 2001 : 205.
6. 横堀将司. 頭蓋内圧モニタリングと管理. *Intensivist* 2013; 5 : 525-37.
7. Marmarou A, et al. Impact of ICP instability and hypotension on outcome in patients with severe head trauma. *J Neurosurg* 1991; 75 : Suppl : S59-66.
8. Stocchetti N, et al. Refractory intracranial hypertension and “second-tier” therapies in traumatic brain injury. *Intensive Care Med* 2008; 34 : 461-7. PMID : 18066523
9. Vik A, et al. Relationship of “dose” of intracranial hypertension to outcome in severe traumatic brain injury. *J Neurosurg* 2008; 109 : 678-84. PMID : 18826355
10. Jennett WB, et al. Relation between cerebral blood-flow and cerebral perfusion pressure. *Br J Surg* 1970; 57 : 390. PMID : 4987829
11. Strandgaard S, et al. Cerebral blood flow and its pathophysiology in hypertension. *Am J Hypertens* 1989; 2 : 486-92. PMID : 2757806
12. Lassen NA, et al. The upper limit of autoregulation of cerebral blood flow — on the pathogenesis of hypertensive encephalopathy. *Scand J Clin Lab Invest* 1972; 30 : 113-6. PMID : 4640619
13. Kaplan NM. Management of hypertensive emergencies. *Lancet* 1994; 344 : 1335-8. PMID : 7968030
14. Bouma GJ, et al. Cerebral blood flow, cerebral blood volume, and cerebrovascular reactivity after severe head injury. *J Neurotrauma* 1992; 9 Suppl 1 : S333-48. PMID : 1588625
15. Bouma GJ, et al. Blood pressure and intracranial pressure-volume dynamics in severe head injury : relationship with cerebral blood flow. *J Neurosurg* 1992; 77 : 15-9. PMID : 1607958
16. Muizelaar JP, et al. Cerebral blood flow and metabolism in severely head-injured children. Part 2 : Autoregulation. *J Neurosurg* 1989; 71 : 72-6. PMID : 2738644
17. Rosner MJ, et al. Cerebral perfusion pressure : management protocol and clinical results. *J Neurosurg* 1995; 83 : 949-62. PMID : 7490638
18. Hadjikoutis S, et al. Raised intracranial pressure presenting with spontaneous periorbital bruising : two case reports. *J Neurol Neurosurg Psychiatry* 2004; 75 : 1192-3. PMID : 15258230
19. Euroacademia Multidisciplinaria Neurotraumatologica. Abstracts for the 8th Congress in Graz, Austria, May 21-24, 2003. *Acta Neurochir (Wien)* 2003; 145 : 1135-48. PMID : 14663574
20. Palmer S, et al. The impact on outcomes in a community hospital setting of using the AANS traumatic brain injury guidelines. Americans Associations for Neurologic Surgeons. *J Trauma* 2001; 50 : 657-64. PMID : 11303160
21. Chesnut RM, et al. A trial of intracranial-pressure monitoring in traumatic brain injury. *N Engl J Med* 2012; 367 : 2471-81. PMID : 23234472
22. Melhem S, et al. A trial of intracranial pressure monitoring in traumatic brain injury. *Crit Care* 2014; 18 : 302. PMID : 24485039
23. Brain Trauma Foundation : American Association of Neurological Surgeons : Congress of Neurological Surgeons. Guidelines for the management of severe traumatic brain injury. *J Neurotrauma* 2007; 24 Suppl 1 : S1-106. PMID : 17511534
24. Raboel PH, et al. Intracranial Pressure Monitoring : Invasive versus Non-Invasive Methods-A Review.

- Crit Care Res Pract 2012; 2012: 950393. PMID : 22720148
25. Dubourg J, et al. Ultrasonography of optic nerve sheath diameter for detection of raised intracranial pressure : a systematic review and meta-analysis. Intensive Care Med 2011; 37: 1059-68. PMID : 21505900
26. Tan H, et al. Outcome prediction in severe traumatic brain injury with transcranial Doppler ultrasonography. Chin J Traumatol 2001; 4: 156-60. PMID : 11835721
27. Reid A, et al. Mean intracranial pressure monitoring by a non-invasive audiological technique : a pilot study. J Neurol Neurosurg Psychiatry 1989; 52: 610-2. PMID : 2732731
28. Michaeli D, et al. Tissue resonance analysis : a novel method for noninvasive monitoring of intracranial pressure. Technical note. J Neurosurg 2002; 96: 1132-7. PMID : 12066918
29. Olivecrona M, et al. Absence of electroencephalographic seizure activity in patients treated for head injury with an intracranial pressure-targeted therapy. J Neurosurg 2009; 110: 300-5. PMID : 18759609
30. Ghori KA, et al. Effect of midazolam versus propofol sedation on markers of neurological injury and outcome after isolated severe head injury : a pilot study. Crit Care Resusc 2007; 9: 166-71. PMID : 17536986
31. Barr J, et al. Clinical practice guidelines for the management of pain, agitation, and delirium in adult patients in the intensive care unit. Crit Care Med 2013; 41: 263-306. PMID : 23269131
32. Ropper AH. Hyperosmolar therapy for raised intracranial pressure. N Engl J Med 2012; 367: 746-52. PMID : 22913684
33. Battison C, et al. Randomized, controlled trial on the effect of a 20% mannitol solution and a 7.5% saline/6% dextran solution on increased intracranial pressure after brain injury. Crit Care Med 2005; 33: 196-202 : discussion 257-8. PMID : 15644669
34. Kochanek PM, et al. Guidelines for the acute medical management of severe traumatic brain injury in infants, children, and adolescents — second edition. Pediatr Crit Care Med 2012; 13 Suppl 1: S1-82. PMID : 22217782
35. Rabinstein AA. Treatment of cerebral edema. Neurologist 2006; 12: 59-73. PMID : 16534443
36. Schwarz S, et al. Effects of hypertonic (10%) saline in patients with raised intracranial pressure after stroke. Stroke 2002; 33: 136-40. PMID : 11779902
37. 脳卒中合同ガイドライン委員会. 脳卒中治療ガイドライン 2009. 東京 : 共和企画, 2009.
38. García-Sola R, et al. The immediate and long-term effects of mannitol and glycerol. A comparative experimental study. Acta Neurochir (Wien) 1991; 109: 114-21. PMID : 1907077
39. Node Y, et al. Clinical study of mannitol and glycerol on raised intracranial pressure and on their rebound phenomenon. Adv Neurol 1990; 52: 359-63. PMID : 2118716
40. Sydenham E, et al. Hypothermia for traumatic head injury. Cochrane Database Syst Rev 2009; (2) : CD001048. PMID : 19370561
41. Eisenberg HM, et al. High-dose barbiturate control of elevated intracranial pressure in patients with severe head injury. J Neurosurg 1988; 69: 15-23. PMID : 3288723
42. Roberts I, et al. Barbiturates for acute traumatic brain injury. Cochrane Database Syst Rev 2012; 12: CD000033. PMID : 23235573
43. Jourdan C, et al. [Evaluation of the clinical benefit of decompression hemicraniectomy in intracranial hypertension not controlled by medical treatment]. Neurochirurgie 1993; 39: 304-10. PMID : 8065488
44. Hutchinson PJ, et al. Trial of Decompressive Craniectomy for Traumatic Intracranial Hypertension. N Engl J Med 2016; 375: 1119-30. PMID : 27602507
45. Taylor A, et al. A randomized trial of very early decompressive craniectomy in children with traumatic brain injury and sustained intracranial hypertension. Childs Nerv Syst 2001; 17: 154-62.

- PMID : 11305769
46. Cooper DJ, et al. Decompressive craniectomy in diffuse traumatic brain injury. *N Engl J Med* 2011; 364: 1493-502. PMID : 21434843
47. Hutchinson PJ, et al. Decompressive craniectomy in traumatic brain injury : the randomized multi-center RESCUEicp study (www.RESCUEicp.com). *Acta Neurochir Suppl* 2006; 96: 17-20. PMID : 16671415
48. Weiss MH, et al. The effect of glucocorticoids on CSF flow in dogs. *J Neurosurg* 1970; 32: 452-8. PMID : 5417941
49. Gobiet W, et al. Treatment of Acute Cerebral Edema with High Dose of Dexamethasone. In : *Intracranial Pressure III*. Berlin/Heidelberg : Springer, 1976 : 231-5.
50. de Gans J, et al. Dexamethasone in adults with bacterial meningitis. *N Engl J Med* 2002; 347: 1549-56. PMID : 12432041
51. Roberts I, et al. Effect of intravenous corticosteroids on death within 14 days in 10008 adults with clinically significant head injury (MRC CRASH trial) : randomised placebo-controlled trial. *Lancet* 2004; 364: 1321-8. PMID : 15474134

第9章 体温管理療法：総論

○ 参照文献

1. Bernard SA, et al. Treatment of comatose survivors of out-of-hospital cardiac arrest with induced hypothermia. *N Engl J Med* 2002; 346: 557-63. PMID : 11856794
2. Hypothermia after Cardiac Arrest Study Group. Mild therapeutic hypothermia to improve the neurologic outcome after cardiac arrest. *N Engl J Med* 2002; 346: 549-56. PMID : 11856793
3. Yokoyama H, et al. Impact of therapeutic hypothermia in the treatment of patients with out-of-hospital cardiac arrest from the J-PULSE-HYPO study registry. *Circ J* 2011; 75: 1063-70. PMID : 21471669
4. Nielsen N, et al. Targeted temperature management at 33°C versus 36°C after cardiac arrest. *N Engl J Med* 2013; 369: 2197-206. PMID : 24237006
5. Zeiner A, et al. Hyperthermia after cardiac arrest is associated with an unfavorable neurologic outcome. *Arch Intern Med* 2001; 161: 2007-12. PMID : 11525703
6. Busto R, et al. Small differences in intraischemic brain temperature critically determine the extent of ischemic neuronal injury. *J Cereb Blood Flow Metab* 1987; 7: 729-38. PMID : 3693428
7. 内野博之ほか. 脳障害のメカニズム. 蘇生 2006; 25: 1-11.
8. Holzer M. Targeted temperature management for comatose survivors of cardiac arrest. *N Engl J Med* 2010; 363: 1256-64. PMID : 20860507
9. 内野博之ほか. 虚血性脳障害のメカニズム. 蘇生 2013; 32: 1-12.
10. Callaway CW, et al. Part 8: Post-Cardiac Arrest Care: 2015 American Heart Association Guidelines Update for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. *Circulation* 2015; 132 (18 Suppl 2) : S465-82. PMID : 26472996
11. Kim YM, et al. Does therapeutic hypothermia benefit adult cardiac arrest patients presenting with non-shockable initial rhythms? : A systematic review and meta-analysis of randomized and non-randomized studies. *Resuscitation* 2012; 83: 188-96. PMID : 21835145
12. Clifton GL, et al. A phase II study of moderate hypothermia in severe brain injury. *J Neurotrauma* 1993; 10: 263-71 : discussion 273. PMID : 8258839
13. Clifton GL, et al. Lack of effect of induction of hypothermia after acute brain injury. *N Engl J Med* 2001; 344: 556-63. PMID : 11207351
14. Clifton GL, et al. Very early hypothermia induction in patients with severe brain injury (the National Acute Brain Injury Study : Hypothermia II) : a randomised trial. *Lancet Neurol* 2011; 10: 131-9.

- PMID : 21169065
15. Sydenham E, et al. Hypothermia for traumatic head injury. *Cochrane Database Syst Rev* 2009 ; (2) : CD001048. PMID : 19370561
16. Georgiou AP, et al. Role of therapeutic hypothermia in improving outcome after traumatic brain injury : a systematic review. *Br J Anaesth* 2013 ; 110 : 357-67. PMID : 23353036
17. Bonds BW, et al. Predictive value of hyperthermia and intracranial hypertension on neurological outcomes in patients with severe traumatic brain injury. *Brain Inj* 2015 ; 29 : 1642-7. PMID : 26479461
18. Geffroy A, et al. Severe traumatic head injury in adults : which patients are at risk of early hyperthermia? *Intensive Care Med* 2004 ; 30 : 785-90. PMID : 15052388
19. Suz P, et al. Clinical features of fever associated with poor outcome in severe pediatric traumatic brain injury. *J Neurosurg Anesthesiol* 2006 ; 18 : 5-10. PMID : 16369134
20. Ginsberg MD, et al. Combating hyperthermia in acute stroke : a significant clinical concern. *Stroke* 1998 ; 29 : 529-34. PMID : 9472901
21. 脳卒中合同ガイドライン委員会. 脳卒中治療ガイドライン 2009.<<http://www.jsts.gr.jp/jss08.html>>
22. Krieger DW, et al. Cooling for acute ischemic brain damage (cool aid) : an open pilot study of induced hypothermia in acute ischemic stroke. *Stroke* 2001 ; 32 : 1847-54. PMID : 11486115
23. De Georgia MA, et al. Cooling for Acute Ischemic Brain Damage (COOL AID) : a feasibility trial of endovascular cooling. *Neurology* 2004 ; 63 : 312-7. PMID : 15277626
24. Hemmen TM, et al. Intravenous thrombolysis plus hypothermia for acute treatment of ischemic stroke (ICTuS-L) : final results. *Stroke* 2010 ; 41 : 2265-70. PMID : 20724711
25. Horn CM, et al. Endovascular Reperfusion and Cooling in Cerebral Acute Ischemia (ReCCLAIM I). *J Neurointerv Surg* 2014 ; 6 : 91-5. PMID : 23468538
26. Hertog Den HM, et al. Cooling Therapy for Acute Stroke (Hertog Den HM, ed.). Chichester, UK : John Wiley & Sons, 2009.
27. Lakhan SE, et al. Application of mild therapeutic hypothermia on stroke : a systematic review and meta-analysis. *Stroke Res Treat* 2012 ; 2012 : 295906. PMID : 22567539
28. Todd MM, et al. Mild intraoperative hypothermia during surgery for intracranial aneurysm. *N Engl J Med* 2005 ; 352 : 135-45. PMID : 15647576
29. Svensson LG, et al. Deep hypothermia with circulatory arrest. Determinants of stroke and early mortality in 656 patients. *J Thorac Cardiovasc Surg* 1993 ; 106 : 19-28 ; discussion 28-31. PMID : 8321002
30. Ziganshin BA, et al. Deep hypothermic circulatory arrest. *Ann Cardithorac Surg* 2013 ; 2 : 303-15. PMID : 23977599
31. Mooney MR, et al. Therapeutic hypothermia after out-of-hospital cardiac arrest : evaluation of a regional system to increase access to cooling. *Circulation* 2011 ; 124 : 206-14. PMID : 21747066
32. Oommen SS, et al. Hypothermia after cardiac arrest : beneficial, but slow to be adopted. *Cleve Clin J Med* 2011 ; 78 : 441-8. PMID : 21724927
33. Bernard SA, et al. Induction of therapeutic hypothermia by paramedics after resuscitation from out-of-hospital ventricular fibrillation cardiac arrest : a randomized controlled trial. *Circulation* 2010 ; 122 : 737-42. PMID : 20679551
34. Kim F, et al. Pilot randomized clinical trial of prehospital induction of mild hypothermia in out-of-hospital cardiac arrest patients with a rapid infusion of 4 degrees C normal saline. *Circulation* 2007 ; 115 : 3064-70. PMID : 17548731
35. Kliegel A, et al. Cold simple intravenous infusions preceding special endovascular cooling for faster induction of mild hypothermia after cardiac arrest — a feasibility study. *Resuscitation* 2005 ; 64 : 347-51. PMID : 15733765
36. Hoedemaekers CW, et al. Comparison of cooling methods to induce and maintain normo- and hypo-

- thermia in intensive care unit patients : a prospective intervention study. Crit Care 2007 ; 11 : R91.
PMID : 17718920
37. O'Grady NP, et al. Guidelines for evaluation of new fever in critically ill adult patients : 2008 update from the American College of Critical Care Medicine and the Infectious Diseases Society of America. Crit Care Med 2008 ; 36 : 1330-49.
PMID : 18379262
38. Donnino MW, et al. Temperature management after cardiac arrest : An advisory statement by the Advanced Life Support Task Force of the International Liaison Committee on Resuscitation and the American Heart Association Emergency Cardiovascular Care Committee and the Council on Cardio-pulmonary, Critical Care, Perioperative and Resuscitation. Circulation 2015 ; 132 : 2448-56.
PMID : 26434495
39. Gebhardt K, et al. Prevalence and effect of fever on outcome following resuscitation from cardiac arrest. Resuscitation 2013 ; 84 : 1062-7.
PMID : 23619740
40. Polderman KH, et al. Therapeutic hypothermia and controlled normothermia in the intensive care unit : practical considerations, side effects, and cooling methods. Crit Care Med 2009 ; 37 : 1101-20.
PMID : 19237924
41. Nielsen N, et al. Adverse events and their relation to mortality in out-of-hospital cardiac arrest patients treated with therapeutic hypothermia. Crit Care Med 2011 ; 39 : 57-64.
PMID : 20959789
42. Kilgannon JH, et al. Relationship between supranormal oxygen tension and outcome after resuscitation from cardiac arrest. Circulation 2011 ; 123 : 2717-22.
PMID : 21606393
43. Williams ML, et al. Is enteral feeding tolerated during therapeutic hypothermia? Resuscitation 2014 ; 85 : 1469-72.
PMID : 25193798
44. 山下 進ほか. 体温管理—低体温療法はエビデンスに基づいているのか? Intensivist 2013 ; 5 : 603-13.
45. Leary M, et al. Pyrexia and neurologic outcomes after therapeutic hypothermia for cardiac arrest. Resuscitation 2013 ; 84 : 1056-61.
PMID : 23153649

第10章 脳卒中急性期の全身管理

○ 参照文献

1. Granacher RP. Traumatic Brain Injury : Methods for Clinical and Forensic Neuropsychiatric Assessment, 2nd ed. Boca Raton : CRC Press/Taylor & Francis Group, 2008.
2. Silver JM, et al. Textbook of Traumatic Brain Injury, 1st ed. Washington DC : American Psychiatric Publishing, 2005.
3. Jauch EC, et al. Guidelines for the early management of patients with acute ischemic stroke : a guideline for healthcare professionals from the American Heart Association/American Stroke Association. Stroke 2013 ; 44 : 870-947.
PMID : 23370205
4. Grotta J, et al. Elective intubation for neurologic deterioration after stroke. Neurology 1995 ; 45 : 640-4.
PMID : 7723948
5. Foerch C, et al. Survival and quality of life outcome after mechanical ventilation in elderly stroke patients. J Neurol Neurosurg Psychiatry 2004 ; 75 : 988-93.
PMID : 15201356
6. Bushnell CD, et al. Survival and outcome after endotracheal intubation for acute stroke. Neurology 1999 ; 52 : 1374-81.
PMID : 10227620
7. Holloway RG, et al. Prognosis and decision making in severe stroke. JAMA 2005 ; 294 : 725-33.
PMID : 16091575
8. Golestanian E, et al. Long-term survival in older critically ill patients with acute ischemic stroke. Crit Care Med 2009 ; 37 : 3107-13.
PMID : 19661805
9. Morgenstern LB, et al. Guidelines for the management of spontaneous intracerebral hemorrhage : a guideline for healthcare professionals from the American Heart Association/American Stroke Associa-

- tion. *Stroke* 2010; 41: 2108-29. PMID : 20651276
10. Connolly ES Jr, et al. Guidelines for the management of aneurysmal subarachnoid hemorrhage : a guideline for healthcare professionals from the American Heart Association/American Stroke Association. *Stroke* 2012; 43: 1711-37. PMID : 22556195
11. Sulter G, et al. Continuous pulse oximetry in acute hemiparetic stroke. *J Neurol Sci* 2000; 179: 65-9. PMID : 11054487
12. Roffe C, et al. Unexpected nocturnal hypoxia in patients with acute stroke. *Stroke* 2003; 34: 2641-5. PMID : 14576377
13. Rowat AM, et al. Patient positioning influences oxygen saturation in the acute phase of stroke. *Cerebrovasc Dis* 2001; 12: 66-72. PMID : 11435682
14. Wojner-Alexander AW, et al. Heads down : flat positioning improves blood flow velocity in acute ischemic stroke. *Neurology* 2005; 64: 1354-7. PMID : 15851722
15. Schwarz S, et al. Effects of body position on intracranial pressure and cerebral perfusion in patients with large hemispheric stroke. *Stroke* 2002; 33: 497-501. PMID : 11823659
16. Tyson SF, et al. The effects of position on oxygen saturation in acute stroke : a systematic review. *Clin Rehabil* 2004; 18: 863-71. PMID : 15609841
17. Prasad K, et al. Fever is associated with doubling of odds of short-term mortality in ischemic stroke : an updated meta-analysis. *Acta Neurol Scand* 2010; 122: 404-8. PMID : 20199523
18. Sulter G, et al. Acetylsalicylic acid and acetaminophen to combat elevated body temperature in acute ischemic stroke. *Cerebrovasc Dis* 2004; 17: 118-22. PMID : 14707410
19. Kasner SE, et al. Acetaminophen for altering body temperature in acute stroke : a randomized clinical trial. *Stroke* 2002; 33: 130-4. PMID : 11779901
20. Dippel DW, et al. Effect of paracetamol (acetaminophen) on body temperature in acute ischemic stroke : a double-blind, randomized phase II clinical trial. *Stroke* 2001; 32: 1607-12. PMID : 11441208
21. den Hertog HM, et al. The Paracetamol (Acetaminophen) In Stroke (PAIS) trial : a multicentre, randomised, placebo-controlled, phase III trial. *Lancet Neurol* 2009; 8: 434-40. PMID : 19297248
22. Schwarz S, et al. Incidence and prognostic significance of fever following intracerebral hemorrhage. *Neurology* 2000; 54: 354-61. PMID : 10668696
23. Lazzaro MA, et al. Detection of atrial fibrillation with concurrent holter monitoring and continuous cardiac telemetry following ischemic stroke and transient ischemic attack. *J Stroke Cerebrovasc Dis* 2012; 21: 89-93. PMID : 20656504
24. Gladstone DJ, et al. Cryptogenic stroke and atrial fibrillation. *N Engl J Med* 2014; 371: 1260. PMID : 25251621
25. Diringer MN, et al. Admission to a neurologic/neurosurgical intensive care unit is associated with reduced mortality rate after intracerebral hemorrhage. *Crit Care Med* 2001; 29: 635-40. PMID : 11373434
26. Morgenstern LB, et al. Guidelines for the management of spontaneous intracerebral hemorrhage : a guideline for healthcare professionals from the American Heart Association/American Stroke Association. *Stroke* 2010; 41: 2108-29. PMID : 20651276
27. Ahmed N, et al. Effect of intravenous nimodipine on blood pressure and outcome after acute stroke. *Stroke* 2000; 31: 1250-5. PMID : 10835440
28. Castillo J, et al. Blood pressure decrease during the acute phase of ischemic stroke is associated with brain injury and poor stroke outcome. *Stroke* 2004; 35: 520-6. PMID : 14726553
29. Christensen H, et al. The course of blood pressure in acute stroke is related to the severity of the neurological deficits. *Acta Neurol Scand* 2002; 106: 142-7. PMID : 12174173
30. He J, et al. Effects of immediate blood pressure reduction on death and major disability in patients

- with acute ischemic stroke : the CATIS randomized clinical trial. *JAMA* 2014 ; 311 : 479-89.
PMID : 24240777
31. Qureshi AI, et al. Prevalence of elevated blood pressure in 563,704 adult patients with stroke presenting to the ED in the United States. *Am J Emerg Med* 2007 ; 25 : 32-8. PMID : 17157679
 32. Zhang Y, et al. Blood pressure and clinical outcome among patients with acute stroke in Inner Mongolia, China. *J Hypertens* 2008 ; 26 : 1446-52. PMID : 18551022
 33. Davis SM, et al. Hematoma growth is a determinant of mortality and poor outcome after intracerebral hemorrhage. *Neurology* 2006 ; 66 : 1175-81. PMID : 16636233
 34. Jauch EC, et al. Lack of evidence for an association between hemodynamic variables and hematoma growth in spontaneous intracerebral hemorrhage. *Stroke* 2006 ; 37 : 2061-5. PMID : 16794216
 35. Jauch EC, et al. Guidelines for the early management of patients with acute ischemic stroke : a guideline for healthcare professionals from the American Heart Association/American Stroke Association. *Stroke* 2013 ; 44 : 870-947. PMID : 23370205
 36. Willmot M, et al. High blood pressure in acute stroke and subsequent outcome : a systematic review. *Hypertension* 2004 ; 43 : 18-24. PMID : 14662649
 37. Zhang Y, et al. Blood pressure and clinical outcome among patients with acute stroke in Inner Mongolia, China. *J Hypertens* 2008 ; 26 : 1446-52. PMID : 18551022
 38. Anderson CS, et al. Intensive blood pressure reduction in acute cerebral haemorrhage trial (INTER-ACT) : a randomised pilot trial. *Lancet Neurol* 2008 ; 7 : 391-9. PMID : 18396107
 39. Antihypertensive Treatment of Acute Cerebral Hemorrhage (ATACH) investigators. Antihypertensive treatment of acute cerebral hemorrhage. *Crit Care Med* 2010 ; 38 : 637-48. PMID : 19770736
 40. Anderson CS, et al. Rapid blood-pressure lowering in patients with acute intracerebral hemorrhage. *N Engl J Med* 2013 ; 368 : 2355-65. PMID : 23713578
 41. Qureshi AI, et al. Intensive blood-pressure lowering in patients with acute cerebral hemorrhage. *N Engl J Med* 2016 ; 375 : 1033-43. PMID : 27276234
 42. Hillman J, et al. Immediate administration of tranexamic acid and reduced incidence of early rebleeding after aneurysmal subarachnoid hemorrhage : a prospective randomized study. *J Neurosurg* 2002 ; 97 : 771-8. PMID : 12405362
 43. Kassell NF, et al. Aneurysmal rebleeding : a preliminary report from the Cooperative Aneurysm Study. *Neurosurgery* 1983 ; 13 : 479-81. PMID : 6646375
 44. Naidech AM, et al. Predictors and impact of aneurysm rebleeding after subarachnoid hemorrhage. *Arch Neurol* 2005 ; 62 : 410-6. PMID : 15767506
 45. Ohkuma H, et al. Incidence and significance of early aneurysmal rebleeding before neurosurgical or neurological management. *Stroke* 2001 ; 32 : 1176-80. PMID : 11340229
 46. Liu-Deryke X, et al. A comparison of nicardipine and labetalol for acute hypertension management following stroke. *Neurocrit Care* 2008 ; 9 : 167-76. PMID : 18250979
 47. Roitberg BZ, et al. Prospective randomized comparison of safety and efficacy of nicardipine and nitroprusside drip for control of hypertension in the neurosurgical intensive care unit. *Neurosurgery* 2008 ; 63 : 115-20 ; discussion 120-1. PMID : 18728576
 48. Vemmos KN, et al. Factors influencing acute blood pressure values in stroke subtypes. *J Hum Hypertens* 2004 ; 18 : 253-9. PMID : 15037874
 49. Ahmed N, et al. Relationship of blood pressure, antihypertensive therapy, and outcome in ischemic stroke treated with intravenous thrombolysis : retrospective analysis from Safe Implementation of Thrombolysis in Stroke-International Stroke Thrombolysis Register (SITS-ISTR). *Stroke* 2009 ; 40 : 2442-9. PMID : 19461022
 50. Bhalla A, et al. Influence of raised plasma osmolality on clinical outcome after acute stroke. *Stroke*

- 2000;31:2043-8. PMID:10978027
51. Gentile NT, et al. Decreased mortality by normalizing blood glucose after acute ischemic stroke. *Acad Emerg Med* 2006;13:174-80. PMID:16436794
52. Williams LS, et al. Effects of admission hyperglycemia on mortality and costs in acute ischemic stroke. *Neurology* 2002;59:67-71. PMID:12105309
53. Capes SE, et al. Stress hyperglycemia and prognosis of stroke in nondiabetic and diabetic patients: a systematic overview. *Stroke* 2001;32:2426-32. PMID:11588337
54. McCormick MT, et al. Management of hyperglycemia in acute stroke: how, when, and for whom? *Stroke* 2008;39:2177-85. PMID:18436889
55. Gray CS, et al. Glucose-potassium-insulin infusions in the management of post-stroke hyperglycemia: the UK Glucose Insulin in Stroke Trial (GIST-UK). *Lancet Neurol* 2007;6:397-406. PMID:17434094
56. Bruno A, et al. Treatment of hyperglycemia in ischemic stroke (THIS): a randomized pilot trial. *Stroke* 2008;39:384-9. PMID:18096840
57. Walters MR, et al. A randomised, controlled pilot study to investigate the potential benefit of intervention with insulin in hyperglycaemic acute ischaemic stroke patients. *Cerebrovasc Dis* 2006;22:116-22. PMID:16685123
58. Kreisel SH, et al. Pragmatic management of hyperglycaemia in acute ischaemic stroke: safety and feasibility of intensive intravenous insulin treatment. *Cerebrovasc Dis* 2009;27:167-75. PMID:19092238
59. American Diabetes Association. Standards of medical care in diabetes—2010. *Diabetes Care* 2010;33 Suppl 1:S11-61. PMID:20042772
60. Fogelholm R, et al. Admission blood glucose and short term survival in primary intracerebral haemorrhage: a population based study. *J Neurol Neurosurg Psychiatry* 2005;76:349-53. PMID:15716524
61. Kimura K, et al. Hyperglycemia independently increases the risk of early death in acute spontaneous intracerebral hemorrhage. *J Neurol Sci* 2007;255:90-4. PMID:17350046
62. Passero S, et al. The influence of diabetes and hyperglycemia on clinical course after intracerebral hemorrhage. *Neurology* 2003;61:1351-6. PMID:14638954
63. Schlenk F, et al. Inpatient hyperglycemia following aneurysmal subarachnoid hemorrhage: relation to cerebral metabolism and outcome. *Neurocrit Care* 2009;11:56-63. PMID:19418265

第11章 脳神経外科周術期の一般的な注意事項

● 参照文献

1. van Gijn J, et al. Subarachnoid haemorrhage: diagnosis, causes and management. *Brain* 2001;124:249-78. PMID:11157554
2. 日本脳卒中学会 脳卒中ガイドライン委員会. 脳卒中治療ガイドライン 2015. 東京:協和企画, 2015.
3. Findlay JM. Current management of aneurysmal subarachnoid hemorrhage guidelines from the Canadian Neurosurgical Society. *Can J Neurol Sci* 1997;24:161-70. PMID:9164696
4. Hemphill JC 3rd, et al. Guidelines for the Management of Spontaneous Intracerebral Hemorrhage: A Guideline for Healthcare Professionals From the American Heart Association/American Stroke Association. *Stroke* 2015;46:2032-60. PMID:26022637
5. Schwarz S, et al. Incidence and prognostic significance of fever following intracerebral hemorrhage. *Neurology* 2000;54:354-61. PMID:10668696
6. Gregson BA, et al. Individual patient data subgroup meta-analysis of surgery for spontaneous supratentorial intracerebral hemorrhage. *Stroke* 2012;43:1496-504. PMID:22511006
7. Morgenstern LB, et al. Rebleeding leads to poor outcome in ultra-early craniotomy for intracerebral

- hemorrhage. Neurology 2001; 56: 1294-9. PMID : 11376176
8. Connolly ES Jr, et al. Guidelines for the management of aneurysmal subarachnoid hemorrhage : a guideline for healthcare professionals from the American Heart Association/american Stroke Association. Stroke 2012; 43: 1711-37. PMID : 22556195
9. du Mesnil de Rochemont R, et al. Nontraumatic subarachnoid hemorrhage : value of repeat angiography. Radiology 1997; 202: 798-800.
10. Ishihara H, et al. Angiogram-negative subarachnoid hemorrhage in the era of three dimensional rotational angiography. J Clin Neurosci 2007; 14: 252-5. PMID : 17258133
11. Khan AA, et al. Angiogram negative subarachnoid haemorrhage : outcomes and the role of repeat angiography. Clin Neurol Neurosurg 2013; 115: 1470-5. PMID : 23485251
12. Haley EC Jr, et al. The International Cooperative Study on the Timing of Aneurysm Surgery. The North American experience. Stroke 1992; 23: 205-14. PMID : 1561649
13. Mayberg MR, et al. Guidelines for the management of aneurysmal subarachnoid hemorrhage. A statement for healthcare professionals from a special writing group of the Stroke Council, American Heart Association. Stroke 1994; 25: 2315-28. PMID : 7974568
14. Molyneux AJ, et al. Risk of recurrent subarachnoid haemorrhage, death, or dependence and standardised mortality ratios after clipping or coiling of an intracranial aneurysm in the International Subarachnoid Aneurysm Trial (ISAT) : long-term follow-up. Lancet Neurol 2009; 8: 427-33. PMID : 19329361
15. Spetzler RF, et al. The Barrow Ruptured Aneurysm Trial : 3-year results. J Neurosurg 2013; 119: 146-57. PMID : 23621600
16. Solander S, et al. Endovascular treatment of multiple intracranial aneurysms by using Guglielmi detachable coils. J Neurosurg 1999; 90: 857-64. PMID : 10223451
17. Murayama Y, et al. Guglielmi detachable coil embolization of cerebral aneurysms : 11 years' experience. J Neurosurg 2003; 98: 959-66. PMID : 12744354
18. van Dijk JM, et al. Surgical clipping as the preferred treatment for aneurysms of the middle cerebral artery. Acta Neurochir (Wien) 2011; 153: 2111-7. PMID : 21898188
19. Brinjikji W, et al. Endovascular treatment of very small (3 mm or smaller) intracranial aneurysms : report of a consecutive series and a meta-analysis. Stroke 2010; 41: 116-21. PMID : 19926837
20. Hayakawa M, et al. Natural history of the neck remnant of a cerebral aneurysm treated with the Guglielmi detachable coil system. J Neurosurg 2000; 93: 561-8. PMID : 11014533
21. Kassell NF, et al. Cerebral vasospasm following aneurysmal subarachnoid hemorrhage. Stroke 1985; 16: 562-72. PMID : 3895589
22. Fisher CM, et al. Relation of cerebral vasospasm to subarachnoid hemorrhage visualized by computerized tomographic scanning. Neurosurgery 1980; 6: 1-9. PMID : 7354892
23. Sekhar LN, et al. Value of transcranial Doppler examination in the diagnosis of cerebral vasospasm after subarachnoid hemorrhage. Neurosurgery 1988; 22: 813-21. PMID : 3288899
24. Suzuki Y, et al. A postmarketing surveillance study of fasudil treatment after aneurysmal subarachnoid hemorrhage. Surg Neurol 2007; 68: 126-31 : discussion 131-2. PMID : 17586012
25. Tokiyoshi K, et al. Efficacy and toxicity of thromboxane synthetase inhibitor for cerebral vasospasm after subarachnoid hemorrhage. Surg Neurol 1991; 36: 112-8. PMID : 1891755
26. Ma J, et al. Effect of fasudil hydrochloride on cerebral vasospasm following aneurysmal subarachnoid hemorrhage in phase II clinical trial. J Chin Clin Med 2009; 4: 61-72.
27. Sawada M, et al. Effectiveness of intra-arterially infused papaverine solutions of various concentrations for the treatment of cerebral vasospasm. Acta Neurochir (Wien) 1997; 139: 706-11. PMID : 9309284

28. Arakawa Y, et al. Milrinone for the treatment of cerebral vasospasm after subarachnoid hemorrhage : report of seven cases. *Neurosurgery* 2001 ; 48 : 723-8 ; discussion 728-30. PMID : 11322432
29. Diringer MN, et al. Critical care management of patients following aneurysmal subarachnoid hemorrhage : recommendations from the Neurocritical Care Society's Multidisciplinary Consensus Conference. *Neurocrit Care* 2011 ; 15 : 211-40. PMID : 21773873
30. Betjes MG. Hyponatremia in acute brain disease : the cerebral salt wasting syndrome. *Eur J Intern Med* 2002 ; 13 : 9-14. PMID : 11836078
31. Momi J, et al. Hyponatremia—what is cerebral salt wasting? *Perm J* 2010 ; 14 : 62-5. PMID : 20740122
32. van der Jagt M. Fluid management of the neurological patient : a concise review. *Crit Care* 2016 ; 20 : 126. PMID : 27240859
33. Kissoon NR, et al. Positive Fluid Balance Is Associated With Poor Outcomes in Subarachnoid Hemorrhage. *J Stroke Cerebrovasc Dis* 2015 ; 24 : 2245-51. PMID : 26277290
34. Martini RP1, et al. The association between fluid balance and outcomes after subarachnoid hemorrhage. *Neurocrit Care* 2012 ; 17 : 191-8. PMID : 21688008
35. Kuwabara K, et al. Association of early post-procedure hemodynamic management with the outcomes of subarachnoid hemorrhage patients. *J Neurol* 2013 ; 260 : 820-31. PMID : 23096067
36. Egge A, et al. Prophylactic hyperdynamic postoperative fluid therapy after aneurysmal subarachnoid hemorrhage : a clinical, prospective, randomized, controlled study. *Neurosurgery* 2001 ; 49 : 593-605 ; discussion 605-6. PMID : 11523669
37. 日本脳卒中学会. rt-PA (アルテプラーゼ) 静注療法 適正治療指針 第二版. 2012年10月(2016年9月一部改訂). <<http://www.jsts.gr.jp/img/rt-PA02.pdf>>
38. 日本脳卒中学会ほか. 経皮経管の脳血栓回収用機器 適正使用指針 第2版. 2015.
39. Powers WJ, et al. 2015 American Heart Association/American Stroke Association Focused Update of the 2013 Guidelines for the Early Management of Patients With Acute Ischemic Stroke Regarding Endovascular Treatment : A Guideline for Healthcare Professionals From the American Heart Association/American Stroke Association. *Stroke* 2015 ; 46 : 3020-35. PMID : 26123479
40. Berkhemer OA, et al. A randomized trial of intraarterial treatment for acute ischemic stroke. *N Engl J Med* 2015 ; 372 : 11-20. PMID : 25517348
41. Goyal M, et al. Randomized assessment of rapid endovascular treatment of ischemic stroke. *N Engl J Med* 2015 ; 372 : 1019-30. PMID : 25671798
42. Campbell BC, et al. Endovascular therapy for ischemic stroke with perfusion-imaging selection. *N Engl J Med* 2015 ; 372 : 1009-18. PMID : 25671797
43. 大友英一ほか. 脳血栓症急性期における OKY-046 の臨床的有用性 プラセボを対照とした多施設二重盲検試験. *臨床医薬* 1991 ; 7 : 353-88.
44. Kobayashi S, et al. Effect of the thrombin inhibitor argatroban in acute cerebral thrombosis. *Semin Thromb Hemost* 1997 ; 23 : 531-4. PMID : 9469625
45. Edaravone Acute Infarction Study Group. Effect of a novel free radical scavenger, edaravone (MCI-186), on acute brain infarction. Randomized, placebo-controlled, double-blind study at multicenters. *Cerebrovasc Dis* 2003 ; 15 : 222-9. PMID : 12715790
46. Barnett HJ, et al. Benefit of carotid endarterectomy in patients with symptomatic moderate or severe stenosis. North American Symptomatic Carotid Endarterectomy Trial Collaborators. *N Engl J Med* 1998 ; 339 : 1415-25. PMID : 9811916
47. North American Symptomatic Carotid Endarterectomy Trial Collaborators. Beneficial effect of carotid endarterectomy in symptomatic patients with high-grade carotid stenosis. *N Engl J Med* 1991 ; 325 : 445-53. PMID : 1852179
48. Yadav JS, et al. Protected carotid-artery stenting versus endarterectomy in high-risk patients. *N Engl*

- J Med 2004; 351: 1493-501. PMID : 15470212
49. Gurm HS, et al. Long-term results of carotid stenting versus endarterectomy in high-risk patients. N Engl J Med 2008; 358: 1572-9. PMID : 18403765
50. Ogasawara K, et al. Prediction and monitoring of cerebral hyperperfusion after carotid endarterectomy by using single-photon emission computerized tomography scanning. J Neurosurg 2003; 99: 504-10. PMID : 12959438
51. Wu TY, et al. Neurological complications of carotid revascularisation. J Neurol Neurosurg Psychiatry 2012; 83: 543-50. PMID : 22193563
52. Devereaux PJ, et al. Surveillance and prevention of major perioperative ischemic cardiac events in patients undergoing noncardiac surgery: a review. CMAJ 2005; 173: 779-88. PMID : 16186585
53. van Mook WN, et al. Cerebral hyperperfusion syndrome. Lancet Neurol 2005; 4: 877-88. PMID : 16297845
54. Calderon-Arnulphi M, et al. Near infrared technology in neuroscience: past, present and future. Neurol Res 2009; 31: 605-14. PMID : 19660190
55. Ogasawara K, et al. Intracranial hemorrhage associated with cerebral hyperperfusion syndrome following carotid endarterectomy and carotid artery stenting: retrospective review of 4494 patients. J Neurosurg 2007; 107: 1130-6. PMID : 18077950

第12章 重症頭部外傷の治療一般(急性硬膜下血腫, 急性硬膜外血腫, 脳挫傷)

● 参照文献

- 日本外傷学会. 外傷初期診療ガイドライン—JATEC. 改訂第5版. 東京: へるす出版, 2017.
- 日本脳神経外科学会. 重症頭部外傷治療・管理のガイドライン 第3版. 東京: 医学書院, 2013.
- Guidelines for the Management of Severe Traumatic Brain Injury, 4th ed. Brain Trauma Foundation 2016.<https://braintrauma.org/uploads/03/12/Guidelines_for_Management_of_Severe_TBI_4th_Edition.pdf>
- Alali AS, et al. Intracranial pressure monitoring in severe traumatic brain injury: results from the American College of Surgeons Trauma Quality Improvement Program. J Neurotrauma 2013; 30: 1737-46. PMID : 23731257
- Hutchinson P. Randomised evaluation of surgery with craniectomy for uncontrollable elevation of intracranial pressure (RESCUEicp). ISRCTN66202560. 2005.<<http://www.isrctn.com/ISRCTN66202560>>
- Nwachukwu EL, et al. Intermittent versus continuous cerebrospinal fluid drainage management in adult severe traumatic brain injury: assessment of intracranial pressure burden. Neurocrit Care 2014; 20: 49-53. PMID : 23943318
- Griesdale DE, et al. External ventricular drains and mortality in patients with severe traumatic brain injury. Can J Neurol Sci 2010; 37: 43-8. PMID : 20169772
- Härtl R, et al. Effect of early nutrition on deaths due to severe traumatic brain injury. J Neurosurg 2008; 109: 50-6. PMID : 18590432

第13章 脳神経外科のドレーン

● 参照文献

- Carney N, et al. Guidelines for the Management of Severe Traumatic Brain Injury, Fourth Edition. Neurosurgery 2016. PMID : 27654000
- Gozal YM, et al. Ventriculostomy-associated infection: a new, standardized reporting definition and institutional experience. Neurocrit Care 2014; 21: 147-51. PMID : 24343563
- Beer R, et al. Nosocomial ventriculitis and meningitis in neurocritical care patients. J Neurol 2008; 255: 1617-24. PMID : 19156484

4. Hagel S, et al. External ventricular drain infections: risk factors and outcome. *Interdiscip Perspect Infect Dis* 2014; 2014: 708531. PMID: 25484896
5. Park P, et al. Risk of infection with prolonged ventricular catheterization. *Neurosurgery* 2004; 55: 594–9; discussion 599–601. PMID: 15335426
6. Meredith FT, et al. Clinical utility of broth cultures of cerebrospinal fluid from patients at risk for shunt infections. *J Clin Microbiol* 1997; 35: 3109–11. PMID: 9399503
7. Ross D, et al. Differentiation of aseptic and bacterial meningitis in postoperative neurosurgical patients. *J Neurosurg* 1988; 69: 669–74. PMID: 3183729
8. Lan CC, et al. Early diagnosis of ventriculoperitoneal shunt infections and malfunctions in children with hydrocephalus. *J Microbiol Immunol Infect* 2003; 36: 47–50. PMID: 12741733
9. Ratilal B, et al. Antibiotic prophylaxis for surgical introduction of intracranial ventricular shunts. *Cochrane Database Syst Rev* 2006; (3): CD005365. PMID: 16856095
10. Whitehead WE, et al. The treatment of cerebrospinal fluid shunt infections. Results from a practice survey of the American Society of Pediatric Neurosurgeons. *Pediatr Neurosurg* 2001; 35: 205–10. PMID: 11694798

第14章 ICUでのリハビリテーション

○ 参照文献

1. 森啓至. 生理学から見た廃用症候群. In: 奈良勲ほか. 理学療法から診る廃用症候群 基礎・予防・介入. 東京: 文光堂, 2014: 12–23.
2. 沖田実. 押縮. In: 奈良勲ほか. 理学療法から診る廃用症候群 基礎・予防・介入. 東京: 文光堂; 2014: 26–38.
3. 山崎俊明ほか. 筋萎縮. In: 奈良勲ほか. 理学療法から診る廃用症候群 基礎・予防・介入. 東京: 文光堂, 2014: 39–53.
4. 浅井仁. 姿勢調節機能に関連する廃用症候群に対する理学療法. In: 奈良勲ほか. 理学療法から診る廃用症候群 基礎・予防・介入. 東京: 文光堂, 2014: 126–36.
5. Levine S, et al. Rapid disuse atrophy of diaphragm fibers in mechanically ventilated humans. *N Engl J Med* 2008; 358: 1327–35. PMID: 18367735
6. 寺岡加代. 口腔機能に関連する廃用症候群. In: 奈良勲ほか. 理学療法から診る廃用症候群 基礎・予防・介入. 東京: 文光堂, 2014: 116–25.
7. Stevens RD, et al. A framework for diagnosing and classifying intensive care unit-acquired weakness. *Crit Care Med* 2009; 37: S299–308. PMID: 20046114
8. Kress JP, et al. ICU-acquired weakness and recovery from critical illness. *N Engl J Med* 2014; 370: 1626–35. PMID: 24758618
9. de Jonghe B, et al. Intensive care unit-acquired weakness: risk factors and prevention. *Crit Care Med* 2009; 37: S309–15. PMID: 20046115
10. Schefold JC, et al. Intensive care unit-acquired weakness (ICUAW) and muscle wasting in critically ill patients with severe sepsis and septic shock. *J Cachexia Sarcopenia Muscle* 2010; 1: 147–157. PMID: 21475702
11. Hermans G, et al. Interventions for preventing critical illness polyneuropathy and critical illness myopathy. *Cochrane Database Syst Rev* 2014; (1): CD006832. PMID: 2447672
12. Macht M, et al. ICU-acquired swallowing disorders. *Crit Care Med* 2013; 41: 2396–405. PMID: 23939361
13. Skoretz SA, Flowers HL, Martino R. The incidence of dysphagia following endotracheal intubation: a systematic review. *Chest* 2010; 137: 665–73.
14. 日本耳鼻咽喉科学会. 嘉下障害診療ガイドライン—耳鼻咽喉科外来における対応—2012年版. 東京: 金

- 原出版, 2012.
15. Kayambu G, et al. Physical therapy for the critically ill in the ICU: a systematic review and meta-analysis. *Crit Care Med* 2013; 41: 1543-54. PMID : 23528802
 16. Schweickert WD, et al. Early physical and occupational therapy in mechanically ventilated, critically ill patients: a randomised controlled trial. *Lancet* 2009; 373: 1874-82. PMID : 19446324
 17. Mehrholz J, et al. Physical rehabilitation for critical illness myopathy and neuropathy. *Cochrane Database Syst Rev* 2015; (3) : CD010942. PMID : 25737049
 18. NICE clinical guidelines CG83-Rehabilitation after critical illness in adults. 2009. <<http://www.nice.org.uk/guidance/CG83>>
 19. Vasilevskis EE, Ely EW, Speroff T, Pun BT, Boehm L, Dittus RS. Reducing iatrogenic risks: ICU-acquired delirium and weakness — crossing the quality chasm. *Chest* 2010; 138: 1224-33.
 20. Pandharipande P, et al. Liberation and animation for ventilated ICU patients: the ABCDE bundle for the back-end of critical care. *Crit Care* 2010; 14: 157. PMID : 20497606
 21. Balas MC, et al. Effectiveness and safety of the awakening and breathing coordination, delirium monitoring/management, and early exercise/mobility bundle. *Crit Care Med* 2014; 42: 1024-36. PMID : 24394627
 22. 日本集中治療医学会 J-PAD ガイドライン作成委員会. 日本版・集中治療室における成人重症患者に対する痛み・不穏・譫妄管理のための臨床ガイドライン. *日集中医誌* 2014; 21: 539-579: 539-79.
 23. Mehta S, Cook D, Devlin JW, et al. Prevalence, risk factors, and outcomes of delirium in mechanically ventilated adults. *Crit Care Med* 2015; 43: 557-66.
 24. Barnes-Daly MA, et al. Improving Hospital Survival and Reducing Brain Dysfunction at Seven California Community Hospitals: Implementing PAD Guidelines Via the ABCDEF Bundle in 6,064 Patients. *Crit Care Med* 2017; 45: 171-8. PMID : 27861180
 25. Hodgson CL, et al. Expert consensus and recommendations on safety criteria for active mobilization of mechanically ventilated critically ill adults. *Crit Care* 2014; 18: 658. PMID : 25475522
 26. Sommers J, et al. Physiotherapy in the intensive care unit: an evidence-based, expert driven, practical statement and rehabilitation recommendations. *Clin Rehabil* 2015; 29: 1051-63. PMID : 25681407
 27. Li Z, et al. Active mobilization for mechanically ventilated patients: a systematic review. *Arch Phys Med Rehabil* 2013; 94: 551-61. PMID : 23127305
 28. 日本集中治療医学会. 集中治療における早期リハビリテーション～根拠に基づくエキスパートコンセンサス～. *日集中医誌* 2017; 24: 255-303.